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APPLICATION NO	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/022,444 12/20/2001		12/20/2001	Lu Tung-Chieh	LUTU3001/EM	3776	
23364	7590	03/24/2005		EXAMINER		
BACON 625 SLAT		AS, PLLC	PEYTON, TAMMARA R			
FOURTH			ART UNIT	PAPER NUMBER		
ALEXAN	DRIA, VA	22314	2182			
				DATE MAILED: 03/24/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	Applicant(s)					
		10/022,44	4	TUNG-CHIEH ET AL					
	Office Action Summary	Examiner		Art Unit					
		Tammara	R Peyton	2182					
	- The MAILING DATE of this communic	cation appears on the	cover sheet with the c	orrespondence addr	ess				
THE N - Extension after S - If the p - If NO - Failure Any re	PRIENT STATUTORY PERIOD FOR ALLING DATE OF THIS COMMUNION SIGNATION OF THIS COMMUNION OF THIS COMMUNION OF THIS COMMUNION OF THIS PROPRIED OF THIS COMMUNION OF THIS PROPRIED OF THIS COMMUNION OF THE COMMUNION OF THIS COMMUNION O	CATION. of 37 CFR 1.136(a). In no everonication. of days, a reply within the statututory period will apply and will by statute, cause the apply.	nt, however, may a reply be tim tory minimum of thirty (30) day: expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timely. the mailing date of this comr D (35 U.S.C. § 133).	nunication.				
Status									
1)⊠	Responsive to communication(s) filed	d on <u>27 December 20</u>	<u>004</u> .						
2a)	This action is FINAL . 2	b)⊠ This action is no	on-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims									
5)□ 6)⊠ 7)⊠	Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-7 and 9-20 is/are rejected. Claim(s) 8 is/are objected to. Claim(s) are subject to restriction and/or election requirement.								
Application	on Papers								
9)[] 7	The specification is objected to by the	Examiner.							
10) 🔲 🏻	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the oath or declaration is objected to								
Priority u	nder 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
Attachment	(s)								
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or F No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	52)				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Application/Control Number: 10/022,444

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DETAILED ACTION

The indicated allowability of claims 5-7 and 9-11 is withdrawn in view of the newly discovered reference(s) below. Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-7 and 9-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burnett, (US 4,964,124).

As per claim 1, 4-7, 9-12, 13, 14, and 20, Burnett teaches a handheld information handling apparatus having a connector interface for swappable connection to appendant devices of two kinds, said appendant device of the first kind (parallel) when connected thereto communicating with said information handling apparatus using a first transmission standard, and said appendant device (RS-422/computer) of the second kind (serial) when connected thereto communicating with said information handling apparatus using a second transmission standard, a method of signal transmission between said information handling apparatus and said appendant devices, comprising the steps of:

representing a first set of signals generated according to said first transmission standard by a reduced set of signals (depending on serial/parallel), wherein said reduced

set of signals is transmitted over said connector interface while said information handling apparatus is communicating with said appendant device of the first kind;

transmitting a second set of signals according to said second transmission standard over said connector interface while said information handling apparatus is communicating with said appendant device of the second kind. (Abstract, cols. 2-12)

It would have been obvious to one of ordinary skill at the time the invention was made that Burnett teaches a connector interface (20) for swappable connection to appendant devices of two kinds (RS-422 interface or a parallel interface) wherein a reduced set of signal are used depending on the serial or parallel connection.

As per claims 2, 3, and 18, Burnett teaches distinguishing between the first and second set of signals to determine which set of signal will be sent over the connector interface.

As per claims 15-17, the PCMCIA, COMPACT FLASH, AND RS-232 are well known communication protocols, thereby making use of these well known communication standards obvious.

As per claim 19, it would have been obvious to one of ordinary skill at the time the invention was made Burnett teaches distinguishing whether one of said first appendant device and said second appendant device is connected to said handheld device.

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Claims 5-7 and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ellis et al., (US 6,256,687).

As per claims 5 and 9-11, Ellis teaches a handheld (computer laptop) information handling system for performing a plurality of functions, comprising:

a display component for displaying information thereon;

a set of input components for operating the information handling system;

a circuitry for processing and transferring a first number of parallel signals generated in accordance with a first transmission standard while one of said functions is being performed, wherein said first number of parallel signals are generated at a first clock rate;

a first interface for external connection comprising a plurality of pins over which a second number of serial signals can be transmitted, wherein said second number is less than said first number:

a first parallel-serial converter coupling said circuitry and said first interface and thereby allowing said first number of parallel signals transferred by said circuitry and said second number of serial signals transmitted over said first interface to be mutually convertible. (Abstract, cols. 2-15)

It would have been obvious to one of ordinary skill that Ellis teaches a serial bus device which operates at a first data rate and a parallel port device which operates at a second data rate and a buffer unit is coupled to the serial bus receiver and the parallel port device. The buffer unit stores the received data at the first data rate and transfers

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the stored data to the parallel port device at the second data rate with obviously reduced set of signals depending on the serial or parallel connection.

As per claims 6 and 7, Ellis teaches wherein said first parallel-serial converter functions at a second clock rate, said second clock rate being a multiple of said first clock rate and wherein said second clock rate is four times faster than said first clock rate.

Allowable Subject Matter

Claim 8 is objected to as being dependent upon a rejected base claim

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tammara Peyton whose telephone number is (703) 306-5508. The examiner can normally be reached between 6:30 - 4:00 from Monday to Thursday, (I am off every first Friday), and 6:30-3:00 every second Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A. Gaffin, can be reached on (703) 308-3301. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3718. Any inquiry of a general nature of relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Mailed responses to this action should be sent to:

Commissioner of Patents and Trademarks Washington, D.C. 20231.

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Faxes for Official/formal (After Final) communications or for informal or draft communications (please label "PROPOSED" or "DRAFT") sent to:

(703) 872-9306

Hand-delivered responses should be brought to:

Crystal Park II, 2121 Crystal Drive, Arlington, VA, Fourth Floor (Receptionist).

Janma Ley J
Tammara Peyton

March 21, 2005